

2011-2012 Professional Development Opportunity



Run to MATH IN CTE—and JOIN THE FUN!!!

Are you looking for a great professional development opportunity that will help you increase your students' math skills?

WHAT IS MATH IN CTE?

Math in CTE is:

- *a curriculum integration model designed to enhance mathematics that is embedded in career and technical education (CTE) content*
- *a process that provides the opportunity for math and CTE teacher teams to work together in communities of practice and to identify where math intersects with CTE concepts and applications*
- *a process that leads to the creation of math-enhanced CTE lessons that follow a seven-element pedagogic framework*
- *a process shown to have a significant, positive impact on student learning in mathematics with no loss to career and technical area content*

WHY SHOULD YOUR SCHOOL BECOME INVOLVED?

Math in CTE provides the potential for:

- *raising math scores on standardized assessments as much as 5 to 10%*
- *strengthening a student's understanding of math*
- *forming a positive partnership with between CTE and the Math Department*
- *helping your school to meet or continue to meet AYP*

WHAT'S IN IT FOR YOU and THE MATH TEACHER?

In addition to the reasons why your school should become involved, you and your math teacher will have the opportunity to:

- *collaborate together to help your student's be successful learners*
- *receive usable classroom lessons using the textbooks and resources you currently use*
- *earn graduate credit(s)*
- *earn a stipend for summer or weekend professional development meetings*

WHAT ARE THE PROFESSIONAL DEVELOPMENT DATES?

The following dates should be placed on your calendar as soon as they are known:

- *Summer or Early Fall (Dates TBD): three-day professional development session in Bismarck*
- *Early Fall, Late Fall or Early Winter of 2011: two-day professional development session (exact dates TBD by group at first professional development meeting)*

- *Late Winter or Early Spring 2012: one or two evening professional development session (via ITV)*

WHAT ARE MY RESPONSIBILITIES?

You will be required to carry out the following responsibilities:

- *teach all of the math-enhanced lessons planned for the entire school year*
- *consult with your math teacher before teaching each of the math-enhanced lessons*
- *complete and submit a Pre- and Post-Teaching Report form in a timely manner*
- *collect and submit one sample of one student's work related to "Element 7: Formal Assessment" for each math-enhanced lesson you teach*
- *collect and submit instructional artifacts you develop for each math-enhanced lesson you teach*

WHERE CAN I FIND A MATH TEACHER?

The following are some ideas on gaining support for your participating math teacher:

- *share the information found in this email with your principal and math teacher*
- *if your math teacher isn't available and if your administrator has a math background, she/he could serve as the math consultant*
- *retired math teachers are an option*
- *consider a math teacher from another school who might be interested in participating*
- *someone with a math major/minor or dual major and has an education background could participate*

WHAT ARE THOSE WHO HAVE PARTICIPATED IN THE PROJECT SAYING ABOUT THIS OPPORTUNITY?

These are comments from some of the teachers involved in the Math-in-CTE Project:

- *Math Teacher: ...excellent, excellent learning opportunity...and [I] hope to be involved in it again next year if possible.*
- *Math Teacher: Make sure that principals and superintendents realize how great this is!*
- *CTE Teacher: Lots of "wasted" professional development days could be better spent doing this.*
- *CTE Teacher: It is an excellent opportunity to work with your peers. It is great to see how much math is incorporated in CTE. It is good to work as a partner with your colleagues.*
- *CTE teacher: I look at math in a different light and how we really need to be on the same wave length as the math teachers in our districts.*
- *CTE teacher: I loved developing lessons with my peers and the math teachers. It was awesome to sit in a room and create with guidance and ideas flowing all over.*

WHO PAYS THE EXPENSES?

Expenses that are paid for by ND CTE:

- *If professional development days are on 'non-school' days participating teachers receive a stipend*

- *Sub pay, travel expenses (including mileage, lodging, and meals) for both the Math and CTE Teacher*

Expenses to you or your school district:

- *NONE! (unless you take the course for college credit)*

WHEN IS THE APPLICATION DUE?

Due Date:

- *TBD*

The following paper work will also need to be completed when you commit to the process:

- *CTE Teacher Agreement Form*
- *Math Teacher Agreement Form*
- *Principal Endorsement Form*

Send the forms to:

- *Mail: Ann Dietchman NDCTE, Dept 270; 600 East Boulevard Ave; Bismarck, ND 58505-0610*
- *Email: adietchman@nd.gov*
- *FAX: 701-328-1255*